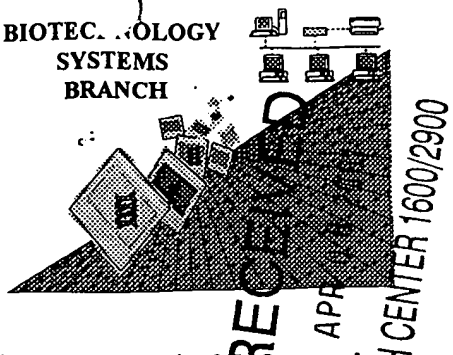
BIOTEC..OLOGY
SYSTEMS
BRANCH



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TECH CENTER 1600/2900

P#8

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/670,568

Source: 1642

Date Processed by STIC: 3/29/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO **REDUCE** ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 3.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

1642

RAW SEQUENCE LISTING DATE: 03/29/2001
PATENT APPLICATION: US/09/670,568 TIME: 10:20:49

Input Set : A:\sequence listing (p99-16).txt
Output Set: N:\CRF3\03292001\I670568.raw

Does Not Comply
Corrected Diskette Needed

```
  3 <110> APPLICANT: Ikawa, Yoji
  4       Otsuka Pharmaceutical Co. Ltd.
  6 <120> TITLE OF INVENTION: Human p51 gene and its product
  8 <130> FILE REFERENCE: P99-16
  9 <140> CURRENT APPLICATION NUMBER:
 10 <141> CURRENT FILING DATE: 2000-09-27
 12 <150> PRIOR APPLICATION NUMBER: JP P1998-100467
 13 <151> PRIOR FILING DATE: 1998-03-27
 15 <160> NUMBER OF SEQ ID NOS: 23
 17 <170> SOFTWARE: PatentIn Ver.2.0
```

ERRORED SEQUENCES

```
389 <210> SEQ ID NO: 5
390 <211> LENGTH: 2270
391 <212> TYPE: DNA
392 <213> ORGANISM: Human
394 <220> FEATURE:
395 <221> NAME/KEY: CDS
396 <222> LOCATION: (145)..(2067)
398 <400> SEQUENCE: 5
399 tcgttgatat caaagacagt tgaaggaaat gaattttgaa acttcacggt gtgccaccct    60
400 acagtactgc cctgaccctt acatccagcg tttcgtagaa acccagctca tttctcttgg   120
401 aaagaaagtt attaccgatc cacc atg tcc cag agc aca cag aca aat gaa      171
402                            Met Ser Gln Ser Thr Gln Thr Asn Glu
403                              1               5
404 ttc ctc agt cca gag gtt ttc cag cat atc tgg gat ttt ctg gaa cag     219
405 Phe Leu Ser Pro Glu Val Phe Gln His Ile Trp Asp Phe Leu Glu Gln
406  10                  15                  20                  25
407 cct ata tgt tca gtt cag ccc att gac ttg aac ttt gtg gat gaa cca     267
408 Pro Ile Cys Ser Val Gln Pro Ile Asp Leu Asn Phe Val Asp Glu Pro
409                  30                  35                  40
410 tca gaa gat ggt gcg aca aac aag att gag att agc atg gac tgt atc     315
411 Ser Glu Asp Gly Ala Thr Asn Lys Ile Glu Ile Ser Met Asp Cys Ile
412              45                  50                  55
413 cgc atg cag gac tcg gac ctg agt gac ccc atg tgg cca cag tac acg     363
414 Arg Met Gln Asp Ser Asp Leu Ser Asp Pro Met Trp Pro Gln Tyr Thr
415          60                  65                  70
416 aac ctg ggg ctc ctg aac agc atg gac cag cag att cag aac ggc tcc     411
417 Asn Leu Gly Leu Leu Asn Ser Met Asp Gln Gln Ile Gln Asn Gly Ser
418      75                  80                  85
419 tcg tcc acc agt ccc tat aac aca gac cac gcg cag aac agc gtc acg     459
420 Ser Ser Thr Ser Pro Tyr Asn Thr Asp His Ala Gln Asn Ser Val Thr
421  90                  95                 100                 105
422 gcg ccc tcg ccc tac gca cag ccc agc tcc acc ttc gat gct ctc tct     507
423 Ala Pro Ser Pro Tyr Ala Gln Pro Ser Ser Thr Phe Asp Ala Leu Ser
```

RAW SEQUENCE LISTING DATE: 03/29/2001
PATENT APPLICATION: US/09/670,568 TIME: 10:20:49

Input Set : A:\sequence listing (p99-16).txt
Output Set: N:\CRF3\03292001\I670568.raw

```
424                 110                 115                 120
425 cca tca ccc gcc atc ccc tcc aac acc gac tac cca ggc ccg cac agt     555
426 Pro Ser Pro Ala Ile Pro Ser Asn Thr Asp Tyr Pro Gly Pro His Ser
427             125                 130                 135
428 ttc gac gtg tcc ttc cag cag tcg agc acc gcc aag tcg gcc acc tgg     603
429 Phe Asp Val Ser Phe Gln Gln Ser Ser Thr Ala Lys Ser Ala Thr Trp
430         140                 145                 150
431 acg tat tcc act gaa ctg aag aaa ctc tac tgc caa att gca aag aca     651
432 Thr Tyr Ser Thr Glu Leu Lys Lys Leu Tyr Cys Gln Ile Ala Lys Thr
433     155                 160                 165
434 tgc ccc atc cag atc aag gtg atg acc cca cct cct cag gga gct gtt     699
435 Cys Pro Ile Gln Ile Lys Val Met Thr Pro Pro Pro Gln Gly Ala Val
436 170                 175                 180                 185
437 atc cgc gcc atg cct gtc tac aaa aaa gct gag cac gtc acg gag gtg     747
438 Ile Arg Ala Met Pro Val Tyr Lys Lys Ala Glu His Val Thr Glu Val
439                 190                 195                 200
440 gtg aag cgg tgc ccc aac cat gag ctg agc cgt gaa ttc aac gag gga     795
441 Val Lys Arg Cys Pro Asn His Glu Leu Ser Arg Glu Phe Asn Glu Gly
442             205                 210                 215
443 cag att gcc cct cct agt cat ttg att cga gta gag ggg aac agc cat     843
444 Gln Ile Ala Pro Pro Ser His Leu Ile Arg Val Glu Gly Asn Ser His
445         220                 225                 230
446 gcc cag tat gta gaa gat ccc atc aca gga aga cag agt gtg ctg gta     891
447 Ala Gln Tyr Val Glu Asp Pro Ile Thr Gly Arg Gln Ser Val Leu Val
448     235                 240                 245
449 cct tat gag cca ccc cag gtt ggc act gaa ttc acg aca gtc ttg tac     939
450 Pro Tyr Glu Pro Pro Gln Val Gly Thr Glu Phe Thr Thr Val Leu Tyr
451 250                 255                 260                 265
452 aat ttc atg tgt aac agc agt tgt gtt gga ggg atg aac cgc cgt cca     987
453 Asn Phe Met Cys Asn Ser Ser Cys Val Gly Gly Met Asn Arg Arg Pro
454                 270                 275                 280
455 att tta atc att gtt act ctg gaa acc aga gat ggg caa gtc ctg ggc    1035
456 Ile Leu Ile Ile Val Thr Leu Glu Thr Arg Asp Gly Gln Val Leu Gly
457             285                 290                 295
458 cga cgc tgc ttt gag gcc cgg atc tgt gct tgc cca gga aga gac agg    1083
459 Arg Arg Cys Phe Glu Ala Arg Ile Cys Ala Cys Pro Gly Arg Asp Arg
460         300                 305                 310
461 aag gcg gat gaa gat agc atc aga aag cag caa gtt tcg gac agt aca    1131
462 Lys Ala Asp Glu Asp Ser Ile Arg Lys Gln Gln Val Ser Asp Ser Thr
463     315                 320                 325
464 aag aac ggt gat ggt acg aag cgc ccg ttt cgt cag aac aca cat ggt    1179
465 Lys Asn Gly Asp Gly Thr Lys Arg Pro Phe Arg Gln Asn Thr His Gly
466 330                 335                 340                 345
467 atc cag atg aca tcc atc aag aaa cga aga tcc cca gat gat gaa ctg    1227
468 Ile Gln Met Thr Ser Ile Lys Lys Arg Arg Ser Pro Asp Asp Glu Leu
469                 350                 355                 360
470 tta tac tta cca gtg agg ggc cgt gag act tat gaa atg ctg ttg aag    1275
471 Leu Tyr Leu Pro Val Arg Gly Arg Glu Thr Tyr Glu Met Leu Leu Lys
472             365                 370                 375
```

RAW SEQUENCE LISTING DATE: 03/29/2001
PATENT APPLICATION: US/09/670,568 TIME: 10:20:49

Input Set : A:\sequence listing (p99-16).txt
Output Set: N:\CRF3\03292001\I670568.raw

```
     473 atc aaa gag tcc ctg gaa ctc atg cag tac ctt cct cag cac aca att    1323
     474 Ile Lys Glu Ser Leu Glu Leu Met Gln Tyr Leu Pro Gln His Thr Ile
     475         380                 385                 390
     476 gaa acg tac agg caa cag caa cag cag cag cac cag cac tta ctt cag    1371
E--> 477     395                 400                 405
     478 aaa cag acc tca ata cag tct cca tct tca tat ggt aac agc tcc cca    1419
     479 Lys Gln Thr Ser Ile Gln Ser Pro Ser Ser Tyr Gly Asn Ser Ser Pro
W--> 480 410                 415                 420                 425
     481 cct ctg aac aaa atg aac agc atg aac aag ctg cct tct gtg agc cag    1467
     482 Pro Leu Asn Lys Met Asn Ser Met Asn Lys Leu Pro Ser Val Ser Gln
W--> 483                 430                 435                 440
     484 ctt atc aac cct cag cag cgc aac gcc ctc act cct aca acc att cct    1515
     485 Leu Ile Asn Pro Gln Gln Arg Asn Ala Leu Thr Pro Thr Thr Ile Pro
W--> 486             445                 450                 455
     487 gat ggc atg gga gcc aac att ccc atg atg ggc acc cac atg cca atg    1563
     488 Asp Gly Met Gly Ala Asn Ile Pro Met Met Gly Thr His Met Pro Met
W--> 489         460                 465                 470
     490 gct gga gac atg aat gga ctc agc ccc acc cag gca ctc cct ccc cca    1611
     491 Ala Gly Asp Met Asn Gly Leu Ser Pro Thr Gln Ala Leu Pro Pro Pro
W--> 492     475                 480                 485
     493 ctc tcc atg cca tcc acc tcc cac tgc aca ccc cca cct ccg tat ccc    1659
     494 Leu Ser Met Pro Ser Thr Ser His Cys Thr Pro Pro Pro Pro Tyr Pro
W--> 495 490                 495                 500                 505
     496 aca gat tgc agc att gtc agt ttc tta gcg agg ttg ggc tgt tca tca    1707
     497 Thr Asp Cys Ser Ile Val Ser Phe Leu Ala Arg Leu Gly Cys Ser Ser
W--> 498                 510                 515                 520
     499 tgt ctg gac tat ttc acg acc cag ggg ctg acc acc atc tat cag att    1755
     500 Cys Leu Asp Tyr Phe Thr Thr Gln Gly Leu Thr Thr Ile Tyr Gln Ile
W--> 501             525                 530                 535
     502 gag cat tac tcc atg gat gat ctg gca agt ctg aaa atc cct gag caa    1803
     503 Glu His Tyr Ser Met Asp Asp Leu Ala Ser Leu Lys Ile Pro Glu Gln
W--> 504         540                 545                 550
     505 ttt cga cat gcg atc tgg aag ggc atc ctg gac cac cgg cag ctc cac    1851
     506 Phe Arg His Ala Ile Trp Lys Gly Ile Leu Asp His Arg Gln Leu His
W--> 507     555                 560                 565
     508 gaa ttc tcc tcc cct tct cat ctc ctg cgg acc cca agc agt gcc tct    1899
     509 Glu Phe Ser Ser Pro Ser His Leu Leu Arg Thr Pro Ser Ser Ala Ser
W--> 510 570                 575                 580                 585
     511 aca gtc agt gtg ggc tcc agt gag acc cgg ggt gag cgt gtt att gat    1947
     512 Thr Val Ser Val Gly Ser Ser Glu Thr Arg Gly Glu Arg Val Ile Asp
W--> 513                 590                 595                 600
     514 gct gtg cga ttc acc ctc cgc cag acc atc tct ttc cca ccc cga gat    1995
     515 Ala Val Arg Phe Thr Leu Arg Gln Thr Ile Ser Phe Pro Pro Arg Asp
W--> 516             605                 610                 615
     517 gag tgg aat gac ttc aac ttt gac atg gat gct cgc cgc aat aag caa    2043
     518 Glu Trp Asn Asp Phe Asn Phe Asp Met Asp Ala Arg Arg Asn Lys Gln
W--> 519         620                 625                 630
     520 cag cgc atc aaa gag gag ggg gag tgagcctcac catgtgagct cttcctatcc   2097
     521 Gln Arg Ile Lys Glu Glu Gly Glu
```

amino acids missing under triplets

RAW SEQUENCE LISTING DATE: 03/29/2001
PATENT APPLICATION: US/09/670,568 TIME: 10:20:49

Input Set : A:\sequence listing (p99-16).txt
Output Set: N:\CRF3\03292001\I670568.raw

> 522 635 640
523 ctctcctaac tgccagcccc ctaaaagcac tcctgcttaa tcttcaaagc cttctcccta 2157
524 gctcctcccc ttcctcttgt ctgatttctt aggggaagga gaagtaagag gctacctctt 2217
525 acctaacatc tgacctggca tctaattctg attctggctt taagccttca aaa 2270

VERIFICATION SUMMARY DATE: 03/29/2001
PATENT APPLICATION: US/09/670,568 TIME: 10:20:50

Input Set : A:\sequence listing (p99-16).txt
Output Set: N:\CRF3\03292001\I670568.raw

L:9 M:283 W: Missing Blank Line separator, <140> field identifier
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:30 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:477 M:254 E: No. of Bases conflict, LENGTH:Input:405 Counted:1371 SEQ:5
L:480 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:483 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:486 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:489 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:492 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:495 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:498 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:501 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:504 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:507 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:510 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:513 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:516 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:519 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:522 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5
L:644 M:283 W: Missing Blank Line separator, <400> field identifier
L:715 M:283 W: Missing Blank Line separator, <400> field identifier